



Carrier Corporation

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VIA AIRBORNE

September 10, 1990

Ms. Beth Brown
Remedial Project Manager
United States Environmental Protection Agency
Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

**RE: Collierville Site Progress Report
August, 1990**

Dear Ms. Brown:

This is the progress report for the Collierville Site, Collierville, Tennessee as specified in Section V(B) of the Administrative Consent Order entered into by the United States Environmental Protection Agency and Carrier Corporation in September, 1989. This report covers the month of August, 1990.

ACTIVITIES COMPLETED

During the month of August all soil borings and wells specified in the approved Work Plan for the Collierville Site with changes approved by EPA in your August 29, 1990 letter were completed. The main change was that the well proposed to be located north of the municipal wellfield was relocated slightly southeast onto Carrier property.

An attempt to locate a well further north of the site failed as detailed in my letter to you of August 29, 1990. Soil samples were collected from this boring and have been submitted for analysis. In that letter the issue of a Force Majeure was raised. Your reply of September 5, 1990 denied this assertion. While Carrier does not necessarily agree, your concurrence that all field activities required under the approved work plan for the site have been completed essentially moots the issue with respect to field activities.

All new borings and wells were sampled. As we have also discussed and the oversight contractor has noted, water production was sparse in the new wells which delayed slightly the development and sampling process.



FINAL RESULTS AND DATA

Results from the analysis of the City of Collierville well system were received during the month. A summary table of these results is attached and full copies of the analytical reports have been forwarded to you under separate cover.

TCE soil screening results continue to be received and an updated copy of last month's summary table is also attached.

As we have previously notified you both orally and in writing, we were notified by our contract laboratory, CompuChem, that they had suffered a series of problems that have resulted in their being unable to meet their agreed turn around times or even the sample holding and extraction times specified in the Quality Assurance Project Plan (QAPP). They informed our technical consultant, EnSafe, to send no more samples until further notice and informed us that already submitted samples were being returned.

In response, EnSafe immediately entered into a contract with PACE Laboratories, which operates under an approved EPA Quality Assurance Plan as a Contract Laboratory. All monitoring well samples were transferred to PACE. Soil samples, however, could not be transferred. The best estimate CompuChem has been able to give us is that soil metals analysis may be delayed by three to five weeks.

PLANNED ACTIVITIES

We are doing everything we can at this point to minimize the delay that this laboratory problem outside our control will cause in submission of the draft RI report. This includes working on those sections of the report not impacted by the missing data. EPA has agreed to a delay in the due date of the report to October 14, 1990. Carrier reserves the right to request additional time based on this unplanned laboratory problem.

CITY WELL SYSTEM

The following is for your information.

The City well treatment system continues to function without problems. CLP sampling data is summarized on the attached Table.

Ms. Beth Brown

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September 10, 1990

If you have any questions or need additional information, please feel free to contact me.

Very truly yours,



Jess R. Walrath, Jr.
Manager, Environmental Assurance

Attachment

c: G. Bailey - Carrier
P. Coop - Ensafé
R. Holland - TDHE
A. Kanerviko - Carrier
C. Krull - Carrier
R. Randle - Patton, Boggs & Blow

COLLIERVILLE SITE
DATA SUMMARY
TCE SOIL SCREENING

BORING NUMBER	SAMPLE NUMBER	TCE	1,2-DCE
B41	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	4	<0.01	<0.01
	6	<0.01	<0.01
B42	7	<0.01	<0.01
	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	0.01	<0.01
B43	1	0.01	<0.01
	2	0.03	<0.01
	3	0.02	<0.01
	4	<0.01	<0.01
	5	0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
B44	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	0.02	<0.01
	7	<0.01	<0.01
	8	0.01	<0.01
B45	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
B46	1	0.05	<0.01
	3	0.09	<0.01
	4	0.08	<0.01
	5	0.01	<0.01
	6	<0.01	<0.01
B47	1	<0.01	<0.01
	2	<0.01	<0.01
	3	0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	<0.01	<0.01

BORING NUMBER	SAMPLE NUMBER	TCE	1,2-DCE
B48	1	<0.01	<0.01
	2	0.20	<0.01
	3	0.44	<0.01
	4	0.01	<0.01
	5	<0.01	<0.01
	6	0.19	<0.01
	7	0.02	<0.01
	8	<0.01	<0.01
	1	<0.01	<0.01
	2	<0.01	<0.01
B49	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	0.15	<0.01
	9	0.17	<0.01
	10	<0.01	<0.01
	1	<0.01	<0.01
	2	<0.01	<0.01
MW27	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	<0.01	<0.01
	12	<0.01	<0.01
	1	<0.01	<0.01
MW29	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	<0.01	<0.01
	12	<0.01	<0.01
MW31	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	<0.01	<0.01
	12	<0.01	<0.01

All results in parts per million, PPM

BORING NUMBER	SAMPLE NUMBER	TCE	1,2-DCE
MW33	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
MW35	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
MW37	1	0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
MW39	1	0.01	<0.01
	2	0.07	<0.01
	3	0.03	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	<0.01	<0.01
	12	0.01	<0.01
MW41	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01
	10	<0.01	<0.01
	11	0.31	<0.01
MW43	1	<0.01	<0.01
	2	<0.01	<0.01
	3	<0.01	<0.01
	4	<0.01	<0.01
	5	<0.01	<0.01
	6	<0.01	<0.01
	7	<0.01	<0.01
	8	<0.01	<0.01
	9	<0.01	<0.01

COLLIERVILLE SITE
DATA SUMMARY
CITY WELLS

PARAMETER	EAST WELL	WEST WELL	AFTER STRIPPER	AFTER CHLORINATE
V Benzene	ND	ND	ND	ND
V Bromoform	ND	ND	ND	ND
V Carbon Tetrachloride	ND	ND	ND	ND
V Chlorobenzene	ND	ND	ND	ND
V Dibromochloromethane	ND	ND	ND	ND
V Chloroethane	ND	ND	ND	ND
V Chloroform	ND	ND	ND	ND
V Bromodichloromethane	ND	ND	ND	ND
V 1,1-Dichloroethane	ND	ND	ND	ND
V 1,2-Dichloroethane	ND	ND	ND	ND
V 1,1-Dichloroethene	ND	ND	ND	ND
V 1,2-Dichloropropane	ND	ND	ND	ND
V Cis-1,3-Dichloropropene	ND	ND	ND	ND
V Ethylbenzene	ND	ND	ND	ND
V Bromomethane	ND	ND	ND	ND
V Chloromethane	ND	ND	ND	ND
V Methylene Chloride	ND	ND	ND	ND
V 1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
V Tetrachloroethene	ND	ND	ND	ND
V Toluene	ND	2	ND	ND
V 1,1,1-Trichloroethane	ND	ND	ND	ND
V 1,1,2-Trichloroethane	ND	ND	ND	ND
V Trichloroethene	9	31	ND	ND
V Vinyl Chloride	ND	ND	ND	ND
V Trans-1,3-Dichloropropene	ND	ND	ND	ND
V Styrene	ND	ND	ND	ND
V Acetone	ND	ND	ND	ND
V 2-Butanone	ND	ND	ND	ND
V Carbon Disulfide	ND	ND	ND	ND
V 2-Hexanone	ND	ND	ND	ND
V 4-Methyl-2-Pentanone	ND	ND	ND	ND
V Vinyl Acetate	ND	ND	ND	ND
V Xylenes (Total)	ND	ND	ND	ND
V 1,2-Dichloroethene (Total)	ND	ND	ND	ND

All results in parts per billion, PPB

Samples taken July 13, 1990

ND - None detected